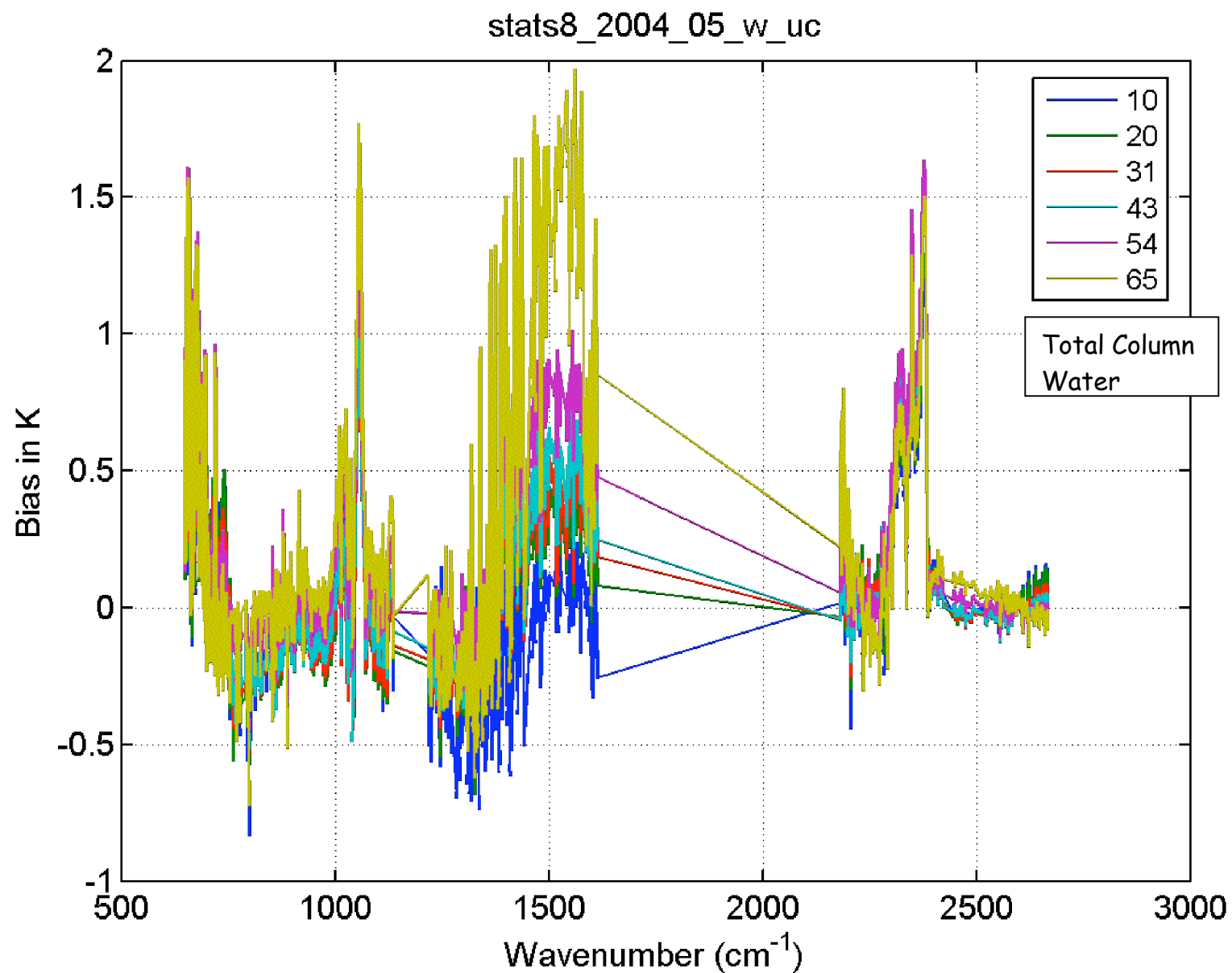


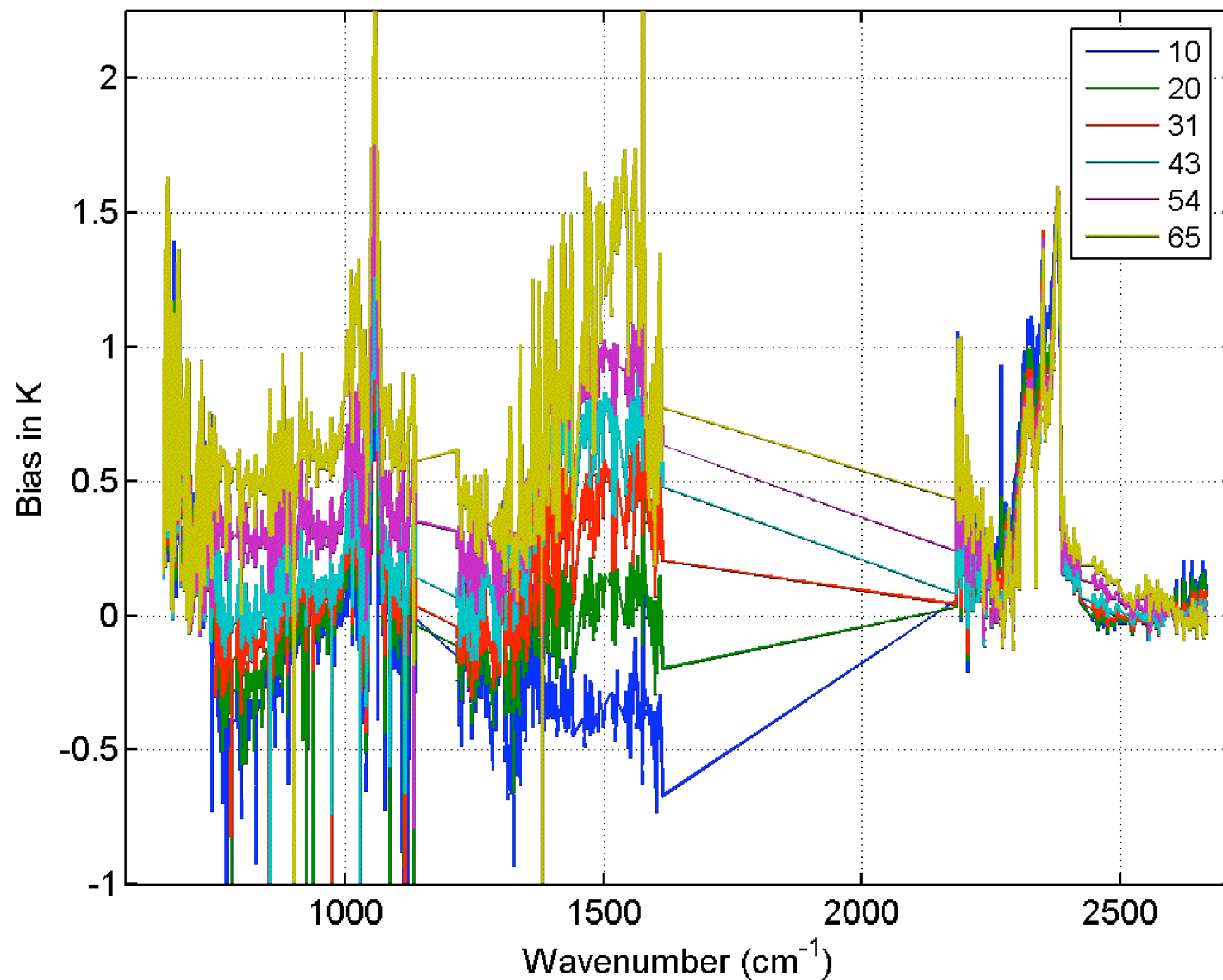
Cloud-Cleared Radiance Validation

- Compare cloud-cleared radiances to our uniform-clear radiances
- Use ECMWF as intercomparison standard
- Does CO_2 signal make it through cloud-clearing?

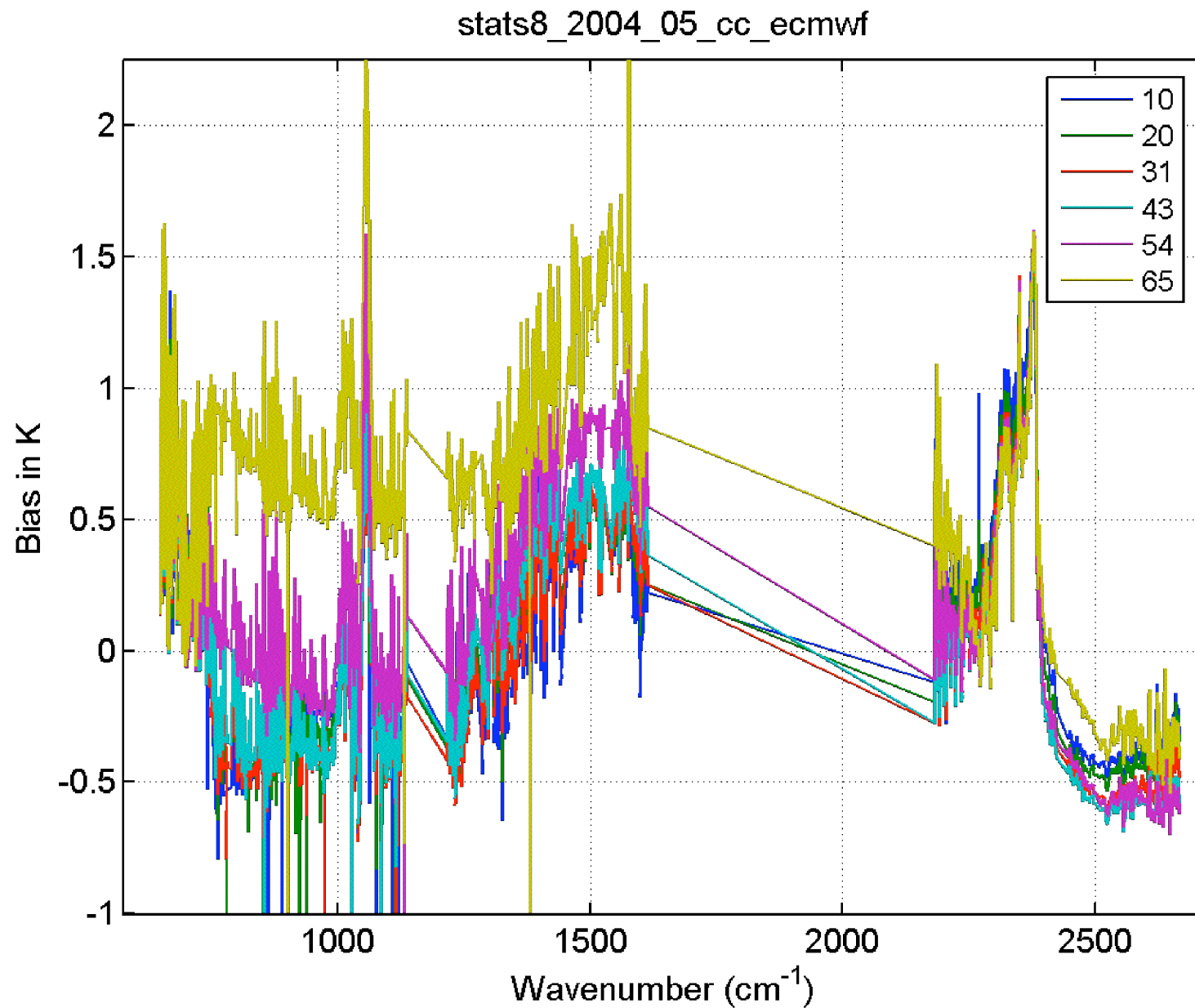


Cloud-Cleared Stats: Q/SST Adjust

stats8_2004_05_wcc_ecmwf

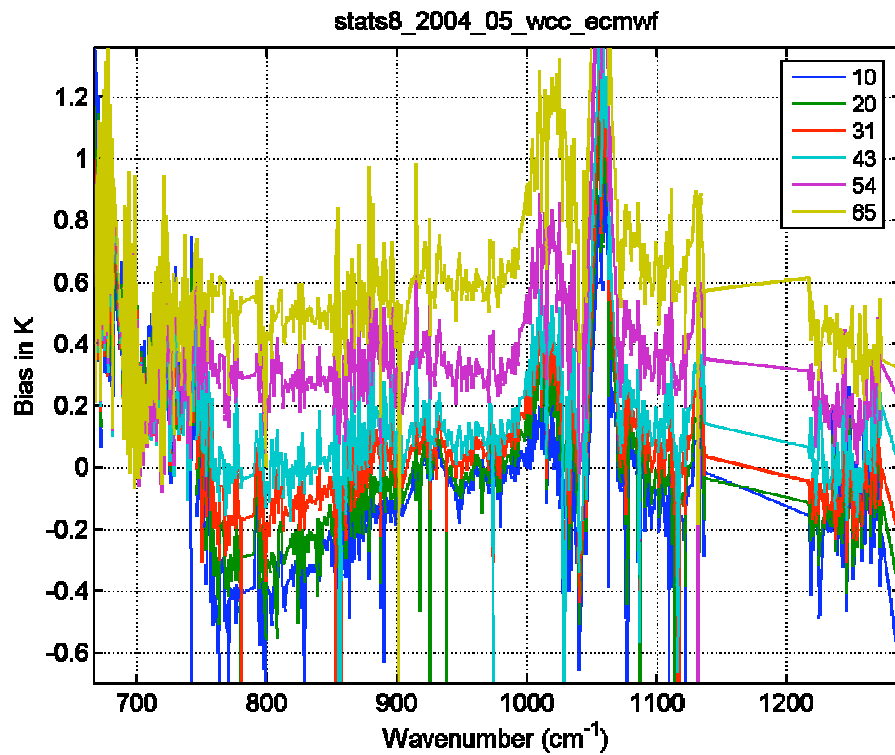


Cloud-Cleared Stats: No Q/SST Adjust

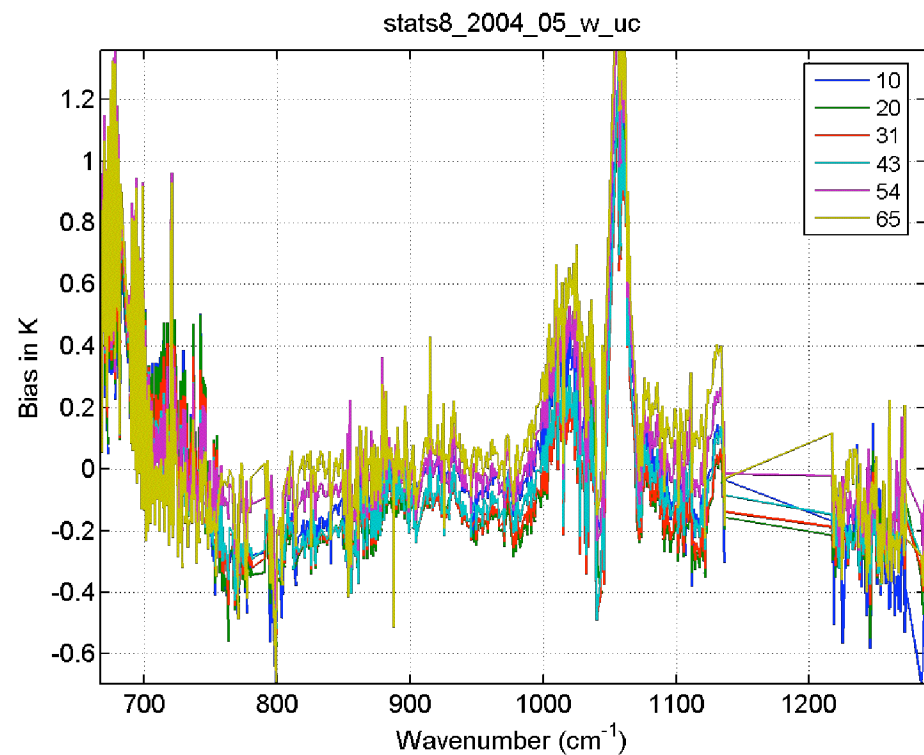


Window Region Only

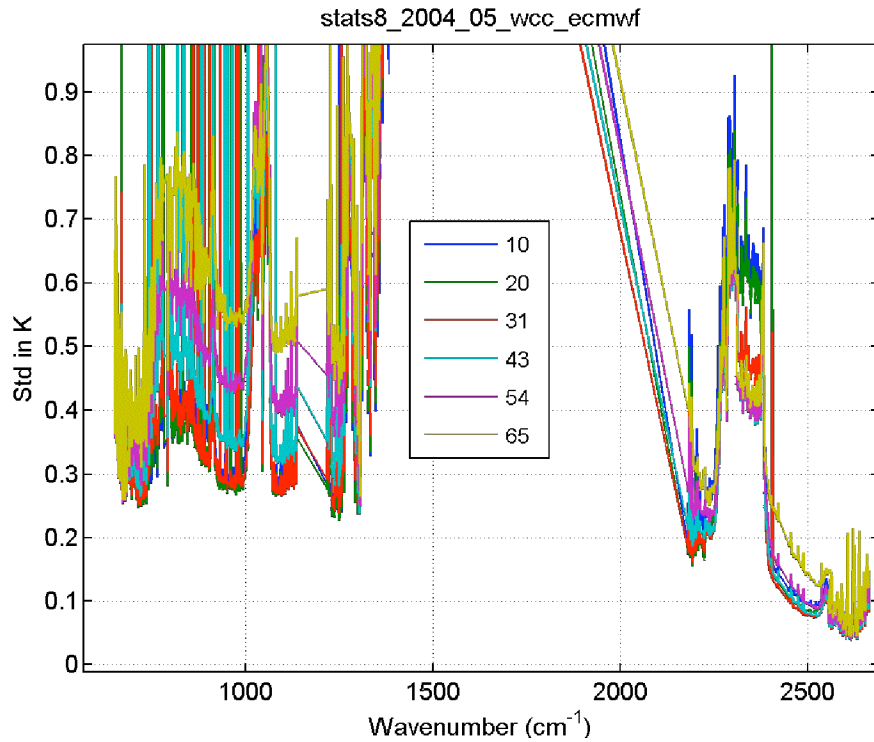
Cloud-Cleared Data



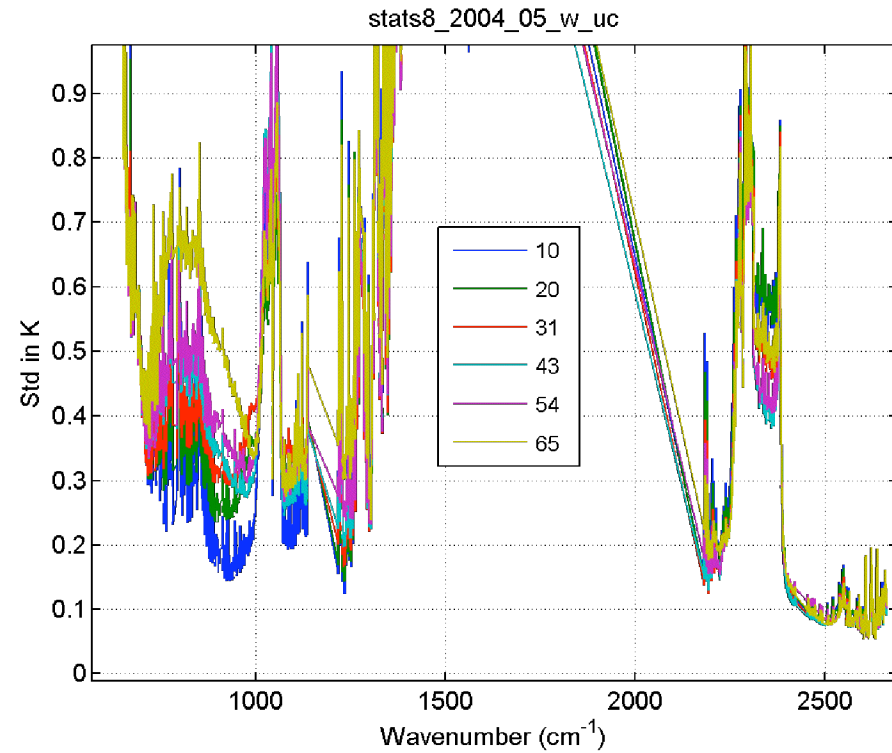
Uniform-Clear Data



Cloud-Cleared Data



Uniform-Clear Data

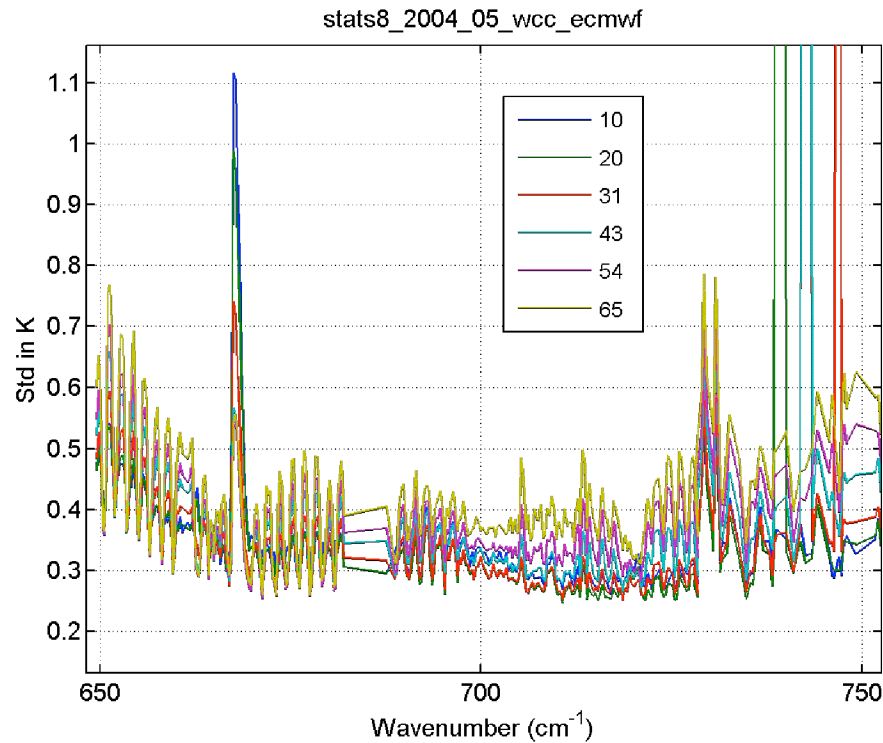


Water band std's very similar (off scale)

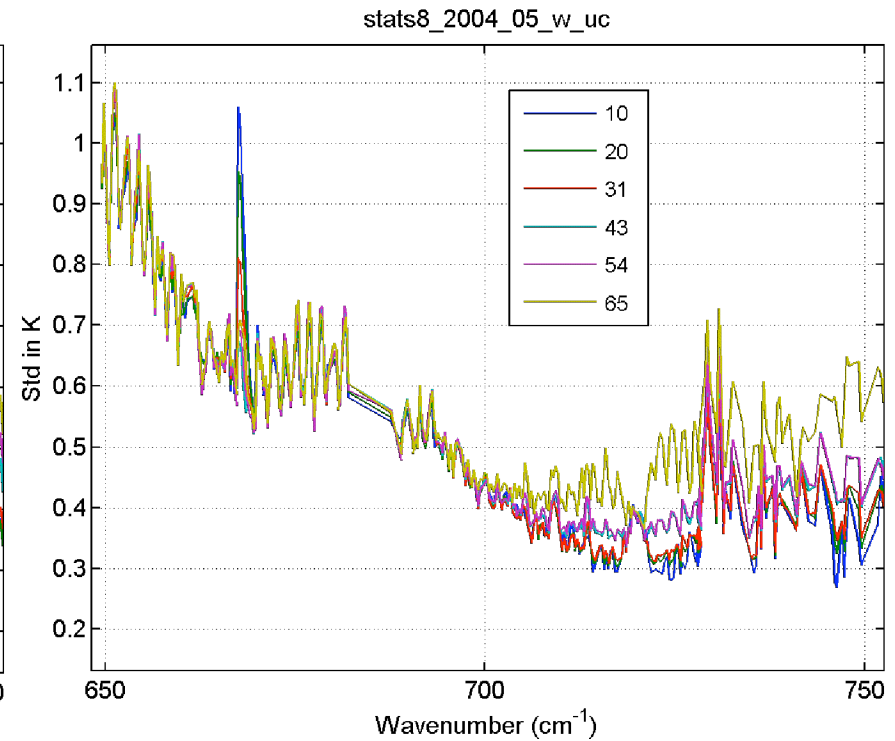
Cloud-cleared std lower in 15 micron region

Standard Deviations (zoom)

Cloud-Cleared Data



Uniform-Clear Data

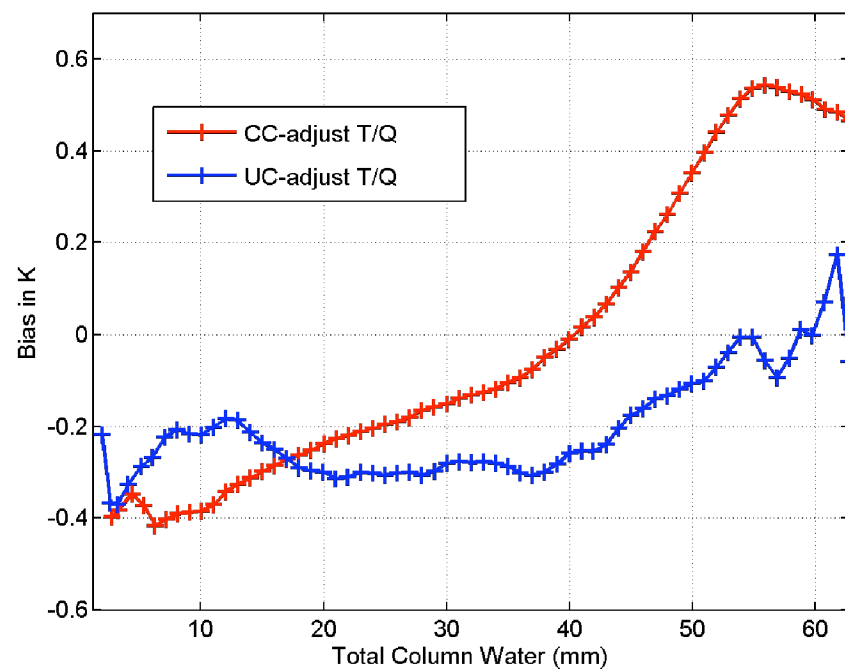
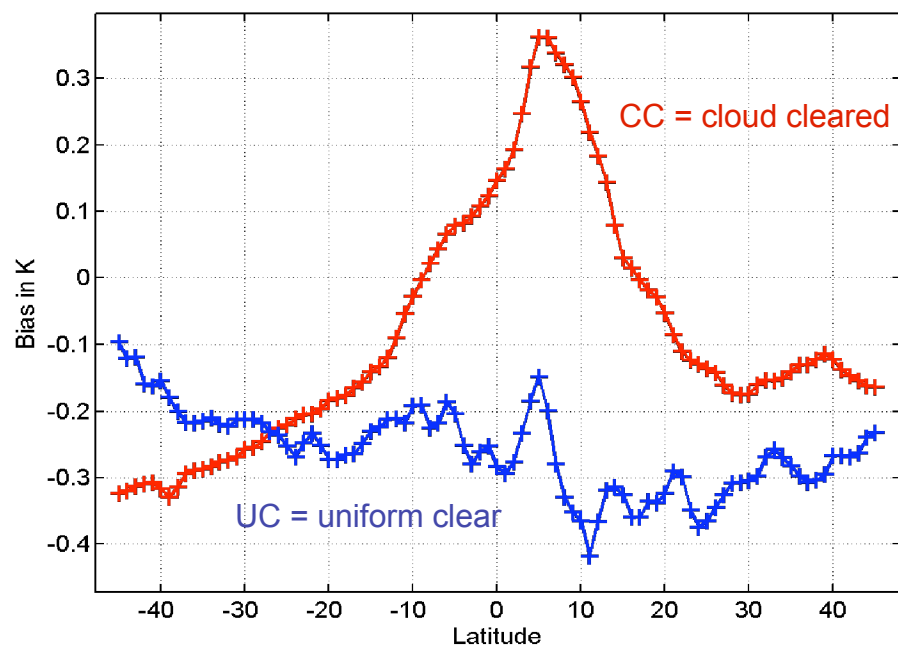


Std. much higher for uniform-clear data below 700 cm^{-1}

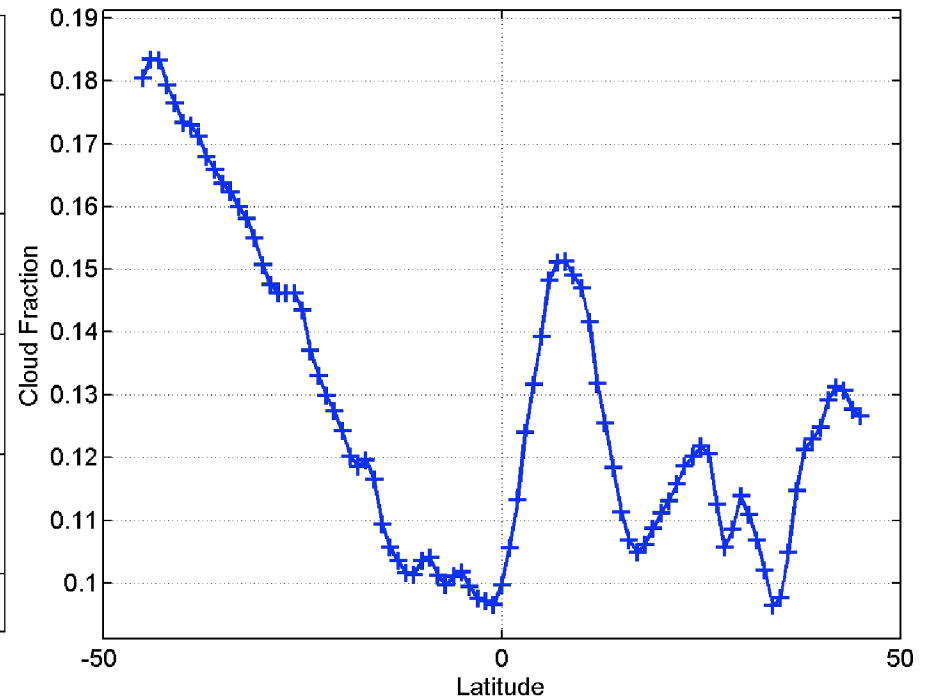
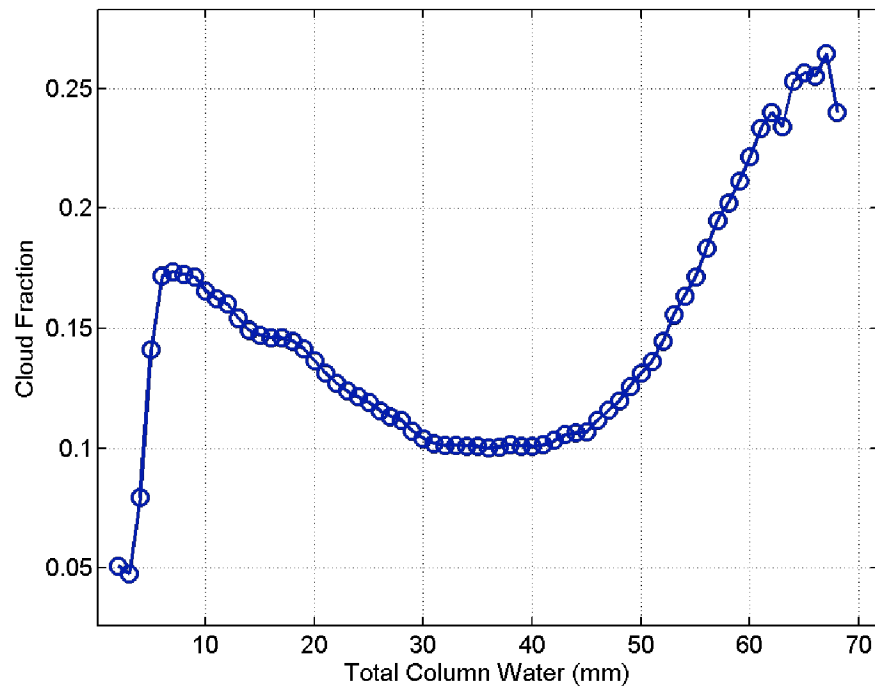
Biases very similar in the $650 - 750 \text{ cm}^{-1}$

805 cm^{-1} Bias

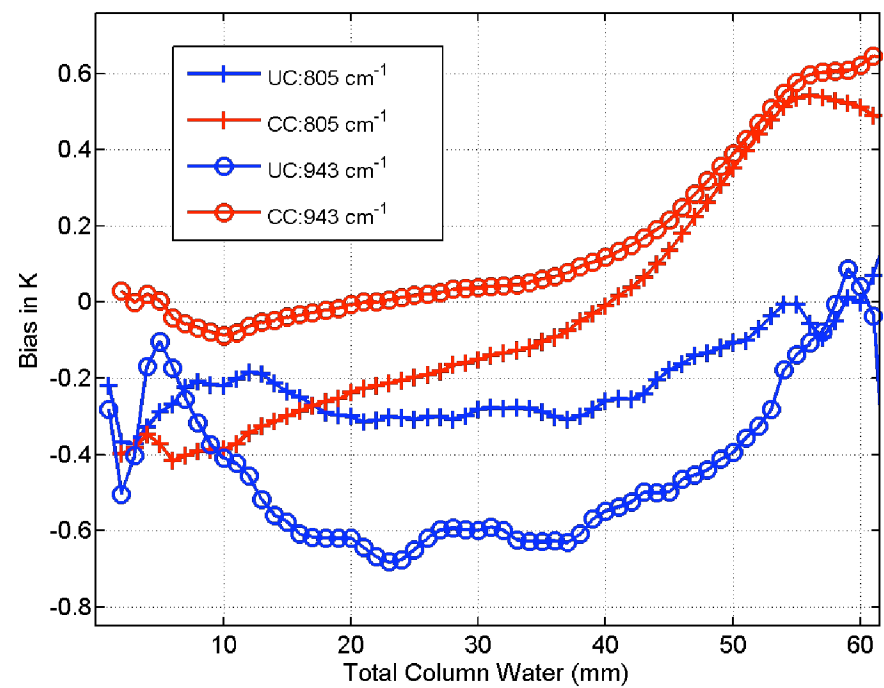
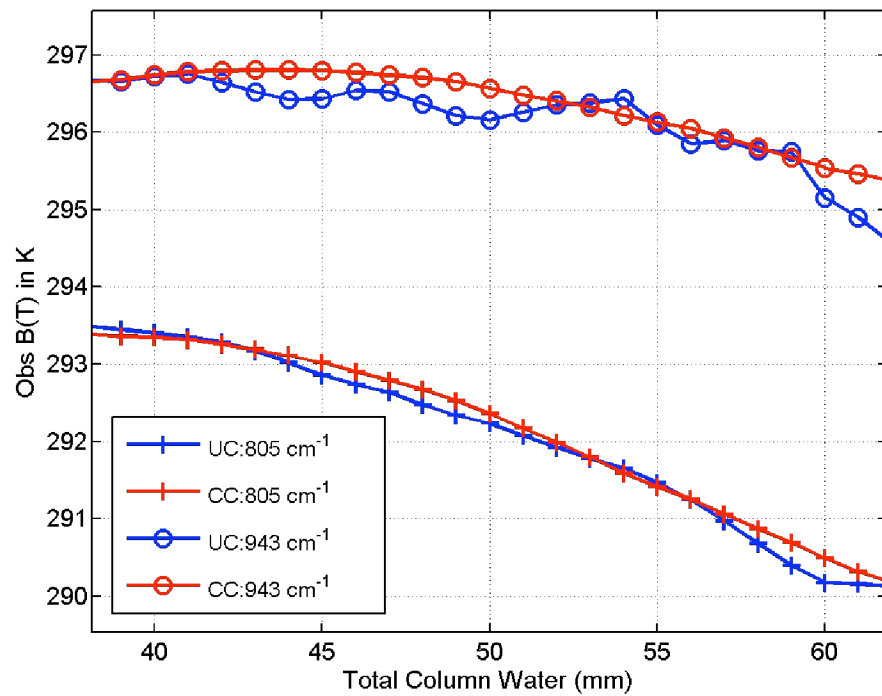
(Window Channel with Strong Water Continuum)



Cloud Fraction vs Water/Latitude

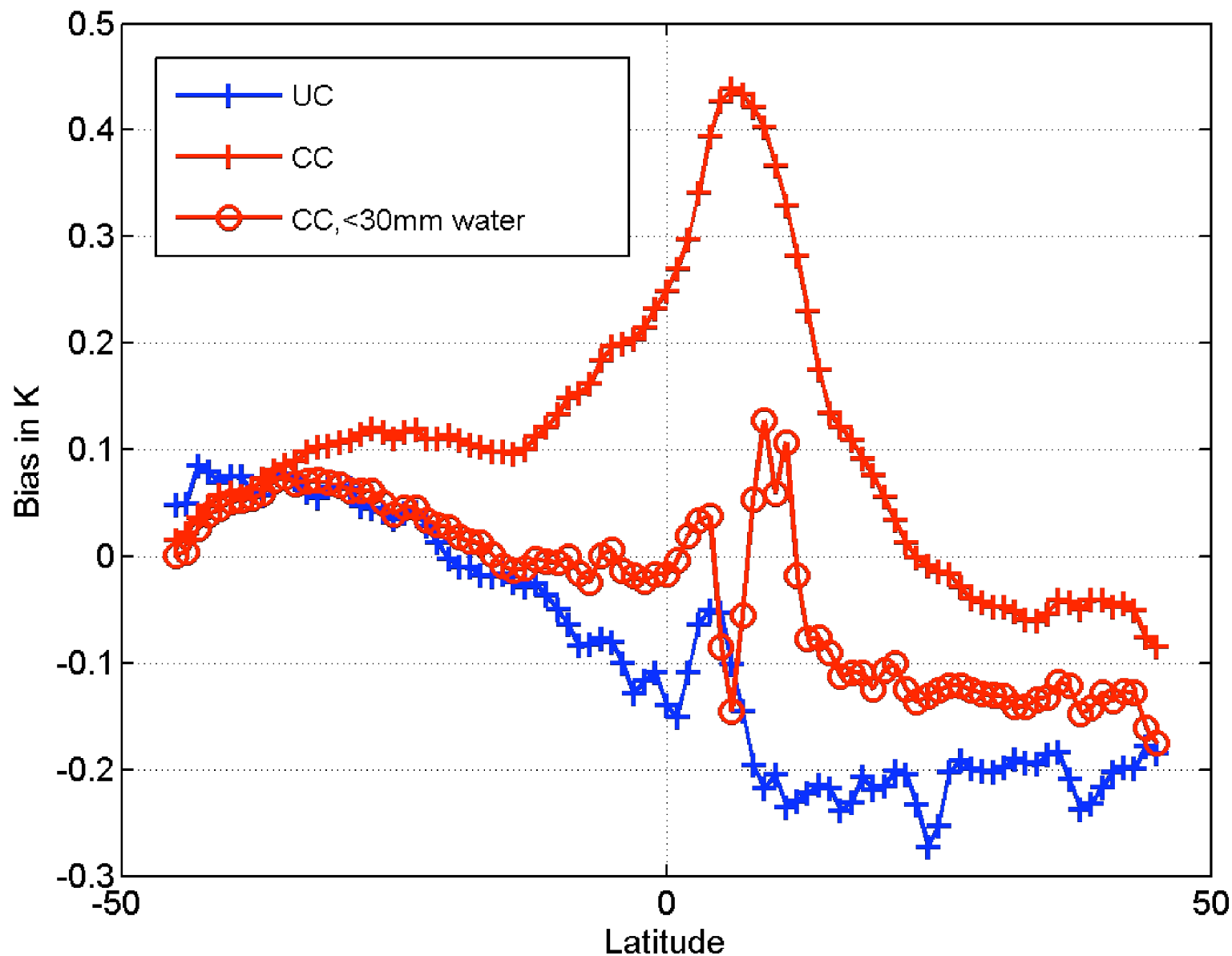


High Water Bias: Due to Clouds?

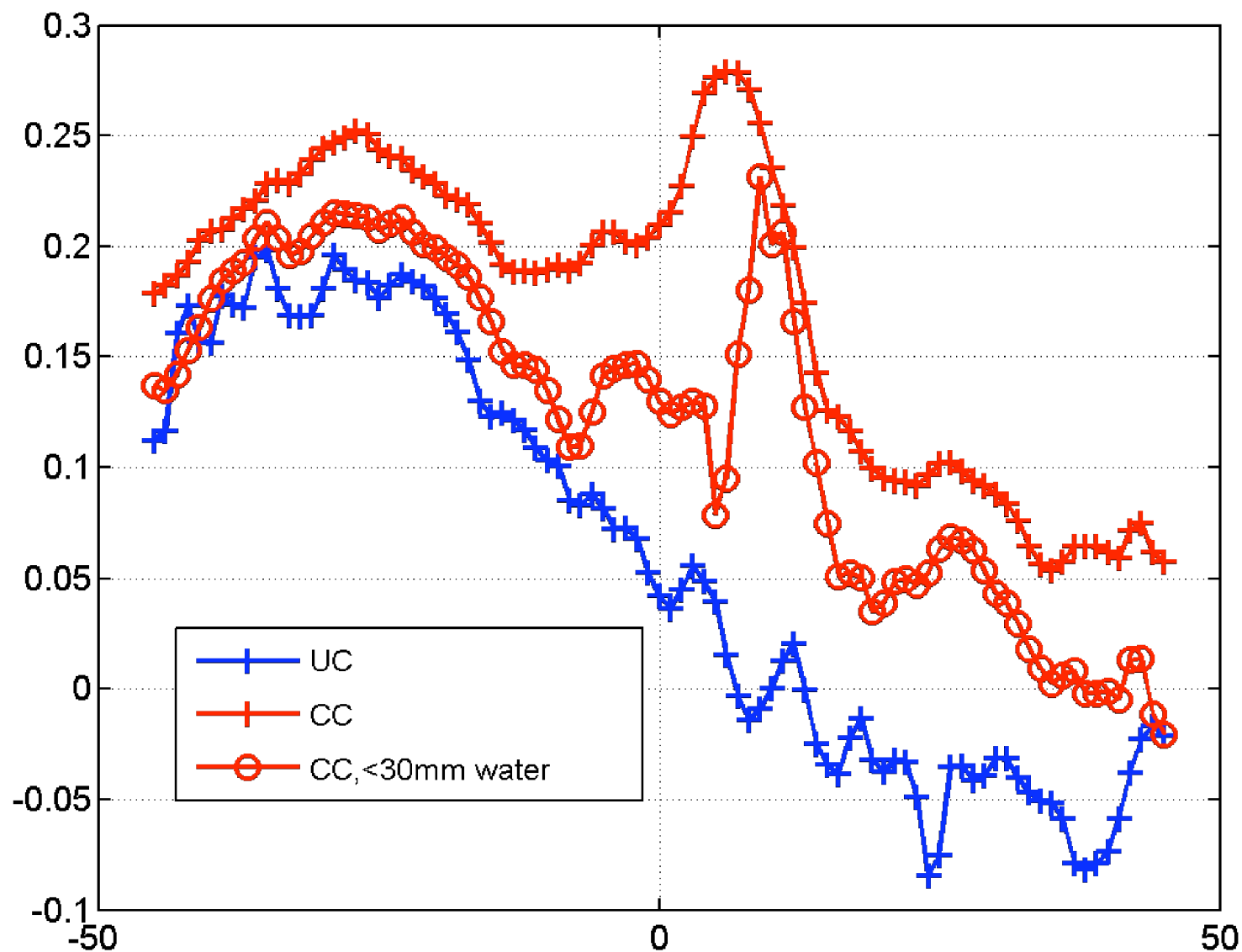


791 cm^{-1} Bias vs Latitude

(CO_2 channel)



2391 cm^{-1} Bias vs Latitude (CO_2 Channel)



1304 cm^{-1} Biases vs Latitude (CH_4 Channel)

